

AMENDMENTS TO THE CLAIMS

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

1-13. (Canceled).

14. (New) A system for providing transcription of a conference between two or more individuals, the system comprising:

a plurality of reception stages to receive speech information over a respective plurality of transmission channels;

at least one processor adapted to implement:

a channel recognizer coupled to the plurality of reception stages to receive speech information, the channel recognizer recognizing which of the plurality of reception stages is receiving speech information during a given time interval to identify an in-use channel of the plurality of transmission channels and to provide channel information including at least one transmission parameter of the in-use channel;

a feature vector extractor for extracting at least one feature vector from the speech information based, at least in part, on the channel information;

a segmentation recognizer for performing acoustic segmentation of the speech information to provide acoustic segmentation information indicating at least one segment identified in the speech information based, at least in part, on the channel information and the at least one feature vector, the acoustic segmentation information including a label for the at least one segment of the speech information indicating whether the at least one segment is associated with speech, a pause in speech or non-speech;

a language recognizer for determining a language of the speech information based, at least in part, on the channel information, the at least one feature vector and the acoustic segmentation information; and

a speech recognizer for providing text information corresponding to words recognized in the speech information based, at least in part, on the channel information, the at least one feature vector, the acoustic segmentation information and the language.

15. (New) The system of claim 14, wherein the plurality of reception stages include at least two of the following:

at least one sound card installed in at least one computer, the sound card connected to at least one microphone;

at least one connection adapted to receive at least one analog telephone line;

at least one connection adapted to receive at least one digital telephone line;

at least one connection adapted to receive at least one Integrated Services Digital Network (ISDN) telephone line;

at least one connection adapted to receive at least one data network channel; and

at least one connection adapted to receive a voice-over-internet-protocol (VoIP) data stream.

16. (New) The system of claim 15, wherein the channel information includes bandwidth information of the in-use channel.

17. (New) The system of claim 15, further comprising a topic recognizer for recognizing at least one key word in the speech information based, at least in part, on the language of the speech information, and wherein the speech recognizer provides the text information based, at least in part, on the at least one key word.

18. (New) The system of claim 17, further comprising a speaker group recognizer for recognizing a speaker group associated with the speech information based, at least in part, on the channel information and the language of the speech information, and wherein the speech recognizer provides the text information based, at least in part, on the speaker group.

19. (New) A method of providing transcription of a conference between two or more individuals, the method comprising:

receiving speech information over a plurality of transmission channels;

recognizing which of the plurality of transmission channels is receiving speech information during a given time interval to identify an in-use channel of the plurality of transmission channels;

providing channel information including at least one transmission parameter of the in-use channel;

extracting at least one feature vector from the speech information based, at least in part, on the channel information;

performing acoustic segmentation of the speech information to provide acoustic segmentation information indicating at least one segment identified in the speech information based, at least in part, on the channel information and the at least one feature vector, the acoustic segmentation information including a label for the at least one segment of the speech information indicating whether the at least one segment is associated with speech, a pause in speech or non-speech;

determining a language of the speech information based, at least in part, on the channel information, the at least one feature vector and the acoustic segmentation information; and

providing text information corresponding to words recognized in the speech information based, at least in part, on the channel information, the at least one feature vector, the acoustic segmentation information and the language of the speech information.

20. (New) The method of claim 19, wherein receiving speech information over a plurality of transmission channels includes receiving speech information via at least two of the following:

at least one sound card installed in at least one computer, the sound card connected to at least one microphone;

at least one analog telephone line;

at least one digital telephone line;

at least one Integrated Services Digital Network (ISDN) telephone line;

at least one data network channel; and
at least one voice-over-internet-protocol (VoIP) data stream.

21. (New) The method of claim 20, wherein the channel information includes bandwidth information of the in-use channel.

22. (New) The method of claim 19, further comprising recognizing at least one key word in the speech information based, at least in part, on the language of the speech information, and providing the text information is based, at least in part, on the at least one key word.

23. (New) The method of claim 22, further comprising recognizing a speaker group associated with the speech information based, at least in part, on the channel information and the language of the speech information, and wherein providing the text information is based, at least in part, on the speaker group.

24. (New) A computer readable storage device encoded with a plurality of instructions for execution on at least one processor, the plurality of instructions, when executed on the at least one processor, performing a method of providing transcription of a conference between two or more individuals, the method comprising:

receiving speech information over a plurality of transmission channels;

recognizing which of the plurality of transmission channels is receiving speech information during a given time interval to identify an in-use channel of the plurality of transmission channels;

providing channel information including at least one transmission parameter of the in-use channel;

extracting at least one feature vector from the speech information based, at least in part, on the channel information;

performing acoustic segmentation of the speech information to provide acoustic segmentation information indicating at least one segment identified in the speech information based, at least in part, on the channel information and the at least one feature vector, the acoustic

segmentation information including a label for the at least one segment of the speech information indicating whether the at least one segment is associated with speech, a pause in speech or non-speech;

determining a language of the speech information based, at least in part, on the channel information, the at least one feature vector and the acoustic segmentation information; and

providing text information corresponding to words recognized in the speech information based, at least in part, on the channel information, the at least one feature vector, the acoustic segmentation information and the language of the speech information.

25. (New) The computer readable storage device of claim 24, wherein receiving speech information over a plurality of transmission channels includes receiving speech information via at least two of the following:

at least one sound card installed in at least one computer, the sound card connected to at least one microphone;

at least one analog telephone line;

at least one digital telephone line;

at least one Integrated Services Digital Network (ISDN) telephone line;

at least one data network channel; and

at least one voice-over-internet-protocol (VoIP) data stream.

26. (New) The computer readable storage device of claim 25, wherein the channel information includes bandwidth information of the in-use channel.

27. (New) The computer readable storage device of claim 24, further comprising recognizing at least one key word in the speech information based, at least in part, on the language of the speech information, and providing the text information is based, at least in part, on the at least one key word.

28. (New) The computer readable storage device of claim 27, further comprising recognizing a speaker group associated with the speech information based, at least in part, on the channel information and the language of the speech information, and wherein providing the text information is based, at least in part, on the speaker group.